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2237 Alcyona Drive, Los Angeles, CA 90068 (US). **ROY, Ajoy** [US/US]; 2385 Oneida Street, Pasadena, CA 91107 (US).

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(74) Agents: **SNYDER, Joseph, R. et al.**; Townsend and Townsend and Crew LLP, Two Embarcadero Center, 8th floor, San Francisco, CA 94111-3834 (US).

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(71) Applicant (*for all designated States except US*):
CYRANO SCIENCES, INC. [US/US]; 73 N. Vinedo Avenue, Pasadena, CA 91107 (US).

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(72) Inventors; and

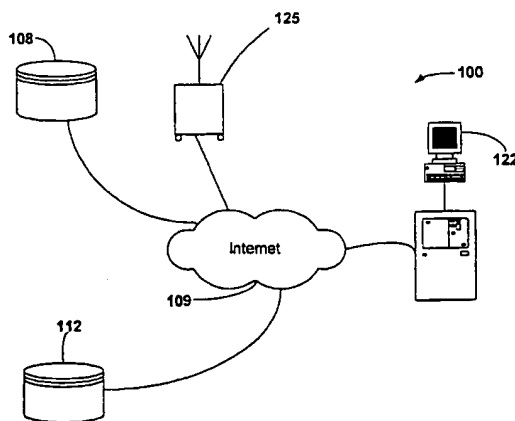
(75) Inventors/Applicants (*for US only*): **SUNSHINE, Steven, A.** [US/US]; 985 S. Oakland Avenue, Pasadena, CA 91106 (US). **STEINTHAL, M., Gregory** [US/US];

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(54) Title: MULTIPLE SENSING SYSTEM AND DEVICE



(57) Abstract: The present invention provides a distributed sensing system in a networked environment for identifying (ID) an analyte of interest, including a first sensor array (fixed at 108, or mobile at 125) connected to the network comprising sensors capable of producing a first response in the presence of a chemical stimulus; a second sensor array (fixed at 112) connected to the network comprising sensors capable of producing a second response in the presence of a physical stimulus; and a local or remote computer (122) comprising a resident algorithm with data processing, data comparison, and judgement making capability. The algorithm indicates or selects the most relevant sensor in the network to identify the analyte. The sensors in the two arrays can be separated over large spatial areas, wherein the sensor arrays are networked together across the environment being monitored for analyte presence and ID. Suitable networks include a computer local area network (LAN), an intranet or the Internet (www) (122).

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